ELSEVIER

Journal of Electrostatics 39 (1997) 317–318

Journal of
ELECTROSTATICS

Author Index Volume 39

Abdel-Salam, M., Z. Al-Hamouz and A. Mufti, Open-boundary finite-element analysis of ionized field around monopolar transmission lines 129–144
Abi Aoun, W.G., *see* Dacre, B. 89–110
Al-Hamouz, Z., *see* Abdel-Salam, M. 129–144
Aladenize, B., R. Coelho, F. Guillaumond and P. Mirebeau, On the intrinsic space charge in a DC power cable 235–251
Amoruso, V. and F. Lattarulo, A graphical approach to the unipolar point-to-plane corona 41– 51

Cañadas, L., *see* Navarrete, B. 65– 81
Carstensen, E.L., Biological effects of power frequency electric fields 157–174
Chen, K.C., *see* Warne, L.K. 53– 63
Chiruţa, M., M. Slanină and M. Duca, On the filtration of fine aerosol particles by a dual-wire fibre filter 145–153
Clements, J.S., *see* Sun, B. 189–202
Coelho, R., *see* Aladenize, B. 235–251
Cohen, A.M., *see* Jones, J.E. 111–128
Cortés, V., *see* Navarrete, B. 65– 81

Dacre, B. and W.G. Abi Aoun, Effects of fuel components on the performance of conductivity improvers in hydrocarbons 89–110
Dobrucki, A., *see* Kacprzyk, R. 33– 40
Du, S., *see* Jiang, Z. 297–304
Duca, M., *see* Chiruţa, M. 145–153

Fisher, W.K., *see* Kessler, L. 253–275

Gajewski, J.B., *see* Kacprzyk, R. 33– 40
Galindo, J., *see* Navarrete, B. 65– 81
Gascoyne, P.R.C., *see* Wang, X. 277–295
Gu, Z. and R.A. Schill Jr., Novel quasi-electrostatic air filter: A single-particle study 203–230
Guillaumond, F., *see* Aladenize, B. 235–251

Han, J.C., *see* Jiang, Z.H. 23– 32
Han, J., *see* Jiang, Z. 297–304
He, X., *see* Jiang, Z. 297–304

Jiang, Z.H., X.R. Zhang and J.C. Han, Electrostatic image method for dipole moment of a chain of two unequal conducting spheres 23– 32
Jiang, Z., X. Zhang, J. Han, X. He and S. Du, Fractal model of the dipole moments of conducting particle chains 297–304
Jones, J.E. and A.M. Cohen, Chebyshev comparisons of current laws for point-plane DC coronae in air 111–128

Kacprzyk, R., A. Dobrucki and J.B. Gajewski, Double-layer electret transducer 33– 40
Kessler, L. and W.K. Fisher, A study of the electrostatic behavior of carpets containing conductive yarns 253–275

Lami, E., F. Mattachini, R. Sala and H. Vigl, A mathematical model of electrostatic field in wires-plate electrostatic precipitators 1– 21
Lattarulo, F., *see* Amoruso, V. 41– 51
Lin, D.L., Effects of VLSI technology scaling on ESD current-carrying capability 175–188

Mattachini, F., *see* Lami, E. 1– 21
Mirebeau, P., *see* Aladenize, B. 235–251
Mufti, A., *see* Abdel-Salam, M. 129–144

Navarrete, B., L. Cañadas, V. Cortés, L. Salvador and J. Galindo, Influence of plate spacing and ash resistivity on the efficiency of electrostatic precipitators 65– 81

Saito, M., M. Sato and K. Sawada, Variation of flame shape and soot emission by applying electric field 305–311
Sala, R., *see* Lami, E. 1– 21
Salvador, L., *see* Navarrete, B. 65– 81
Sato, M., *see* Sun, B. 189–202
Sato, M., *see* Saito, M. 305–311
Sawada, K., *see* Saito, M. 305–311
Schill Jr., R.A., *see* Gu, Z. 203–230
Slanină, M., *see* Chiruţa, M. 145–153
Sun, B., M. Sato, J.S. Clements, Optical study of active species produced by a pulsed streamer corona discharge in water 189–202

Vigl, H., *see* Lami, E. 1– 21

Wang, X.-B., *see* Wang, X. 277–295
Wang, X., X.-B. Wang and P.R.C. Gascoyne, General expressions for dielectrophoretic force and electrorotational torque derived using the Maxwell stress tensor method 277–295
Warne, L.K. and K.C. Chen, An approximate solution of a static cylindrical mixed boundary value problem 53– 63

Zhang, X., *see* Jiang, Z. 297–304
Zhang, X.R., *see* Jiang, Z.H. 23– 32

ELSEVIER

Journal of Electrostatics 39 (1997) 319–320

Journal of
ELECTROSTATICS

Subject Index Volume 39

Aerosols, 145
Anti-static, 89
Ash resistivity, 65

Bessel functions, 53
Bi-cylindrical coordinates, 145
Biological effects of electric fields, 157
Brownian motion, 145

Charged particle motion, 203
Chebyshev polynomials, 111
Coal-fired power plant, 65
Collection efficiency, 65
Computational grid, 1
Conducting particles, 297
Conduction problem, 53
Conductive fibers, 253
Conductive yarn, 253
Conductivity improvers, 89
Corona, 41, 111
Corona charging, 33
Corona discharge, 305
Corona neutralization, 253
Cylindrical geometry, 53

DC cables, 235
DC transmission line, 129
Deutsch equation, 65
Deutsch law, 41
Dielectric properties of biological materials, 157
Dielectrics, 235
Dielectrophoresis, 277
Diffusion flame, 305
Dipole moment, 23, 297

ESD damage to electronic chips, 175
Electret, 33
Electric curtain, 203
Electric fields, 157
Electrical conductivity, 89, 235
Electrical discharge, 175, 189
Electrical discharge in water, 189
Electrical double-layer, 33
Electrorotation, 277

Electrostatic charge in carpet, 253
Electrostatic discharge, 175
Electrostatic field calculation, 129
Electrostatic force, 145
Electrostatic images, 23
Electrostatic precipitator, 1, 65, 203

Fabric filter, 145
Field calculation, 145
Filtering of radioactive dust, 203
Finite difference field calculation, 1
Finite element method, 129
Finite element modeling of particle trap, 203
Fractals, 297

Health effects of ELF (extremely low frequency) electric fields, 157
High voltage, 235
Hydrocarbon fuel, 89

Image charge, 297
Ion flow, 41
Ionic currents, 111
Ionic wind, 305

Junction depth, 175

Laplace's equation, 53

Maxwell stress tensor, 277
Mixed boundary conditions, 53

OH radicals, 189
Oil well logging, 53
Optical emission spectra, 189

PTFE foil, 33
Particle chains, 23, 297
Particle convection, 145
Particle diffusion, 145
Particle interactions, 23
Petersen equation, 65
Piezoelectric transducer, 33
Plutonium particulate, 203

Point-plane discharges, 111
Point-to-plane geometry, 41
Poisson's equation, 129
Power frequencies, 157
Pulsed high-voltage, 189

Sigmond's law, 111
Snapback voltage, 175
Soot, 305
Soot suppression, 305
Space charge, 235
Spherical conductors, 23
Static dissipators, 89
Thermal conduction, 175
Thermal conductivity, 235
Transistor, 175
Triboelectric charge, 253

Unipolar corona, 41

VLSI technology, 175

Warburg law, 41, 111
Wire–plate electrodes, 1